

Sequence length 2175

CACGGGTCCGCAAAATTTCTGATTCCTTTGAATTAGGATTCCAGATGGGGGCTCATTTCACAGCCCCAACATTCTCT

ATAGCCGTTATCACTGCCATCACCACCTGCCACCAGCATCTTCTTGAGATTCCACCCCTGCTCCCCAGAGACTTCTCTGC

TTTGAAAGTGAGCAGAAAGGAAGCTCTCAGAAAAATCTCTAGTGGTGGCTGCGCTCGCTCCAGACAATCGGAATCTCTGC

M	G	W	L	F	L	K	V	L	L	A	G	V	S	F	S	G	17	
CTTCACCACC	ATG	GGC	TGG	CTT	TTT	CTA	AAG	GTT	TTG	TTG	GCG	GGA	GTG	AGT	TTC	TCA	GGA	51

F	L	Y	P	L	V	D	F	C	I	S	G	K	T	R	G	Q	K	P	N	37
TTT	CTT	TAT	CCT	CTT	GTG	GAT	TTT	TGC	ATC	AGT	GGG	AAA	ACA	AGA	GGA	CAG	AAG	CCA	AAC	111

F	V	I	I	L	A	D	D	M	G	W	G	D	L	G	A	N	W	A	E	57
TTT	GTG	ATT	ATT	TTG	GCC	GAT	GAC	ATG	GGG	TGG	GGT	GAC	CTG	GGA	GCA	AAC	TGG	GCA	GAA	171

T	K	D	T	A	N	L	D	K	M	A	S	E	G	M	R	F	V	D	F	77
ACA	AAG	GAC	ACT	GCC	AAC	CTT	GAT	AAG	ATG	GCT	TCG	GAG	GGA	ATG	AGG	TTT	GTG	GAT	TTC	231

H	A	A	A	S	T	C	S	P	S	R	A	S	L	L	T	G	R	L	G	97
CAT	GCA	GCT	GCC	TCC	ACC	TGC	TCA	CCC	TCC	CGG	GCT	TCC	TTG	CTC	ACC	GGC	CGG	CTT	GGC	291

L	R	N	G	V	T	R	N	F	A	V	T	S	V	G	G	L	P	L	N	117
CTT	CGC	AAT	GGA	GTC	ACA	CGC	AAC	TTT	GCA	GTC	ACT	TCT	GTG	GGA	GGC	CTT	CCG	CTC	AAC	351

E	T	T	L	A	E	V	L	Q	Q	A	G	Y	V	T	G	I	I	G	K	137
GAG	ACC	ACC	TTG	GCA	GAG	GTG	CTG	CAG	CAG	GCG	GGT	TAC	GTC	ACT	GGG	ATA	ATA	GGC	AAA	411

W	H	L	G	H	G	S	Y	H	P	N	F	R	G	F	D	Y	Y	F	157	
TGG	CAT	CTT	GGA	CAC	CAC	GGC	TCT	TAT	CAC	CCC	AAC	TTC	CGT	GGT	TTT	GAT	TAC	TAC	TTT	471

G	I	P	Y	S	H	D	M	G	C	T	D	T	P	G	Y	N	H	P	P	177
GGA	ATC	CCA	TAT	AGC	CAT	GAT	ATG	GGC	TGT	ACT	GAT	ACT	CCA	GGC	TAC	AAC	CAC	CCT	CCT	531

C	P	A	C	P	Q	G	D	G	P	S	R	N	L	Q	R	D	C	Y	T	197
TGT	CCA	GCG	TGT	CCA	CAG	GGT	GAT	GGA	CCA	TCA	AGG	AAC	CTT	CAA	AGA	GAC	TGT	TAC	ACT	591

D	V	A	L	P	L	Y	E	N	L	N	I	V	E	Q	P	V	N	L	S	217
GAC	GTG	GCC	CTC	CCT	CTT	TAT	GAA	AAC	CTC	AAC	ATT	GTG	GAG	CAG	CCG	GTG	AAC	TTG	AGC	651

S	L	A	Q	K	Y	A	E	K	A	T	Q	F	I	Q	R	A	S	T	S	237
AGC	CTT	GCC	CAG	AAG	TAT	GCT	GAG	AAA	GCA	ACC	CAG	TTC	ATC	CAG	CGT	GCA	AGC	ACC	AGC	711

G	R	P	F	L	L	Y	V	A	L	A	H	M	H	V	P	L	P	V	T	257
GGG	AGG	CCC	TTC	CTG	CTC	TAT	GTG	GCT	CTG	GCC	CAC	ATG	CAC	GTG	CCC	TTA	CCC	GTG	ACT	771

Q	L	P	A	A	P	R	G	R	S	L	Y	G	A	G	L	W	E	M	D	277
CAG	CTA	CCA	GCA	GCG	CCA	CGG	GCC	AGA	AGC	CTG	TAT	GGT	GCA	GGG	CTC	TGG	GAG	ATG	GAC	831

S	L	V	G	Q	I	K	D	K	V	D	H	T	V	K	E	N	T	F	L	297
AGT	CTG	GTG	GGC	CAG	ATC	AAG	GAC	AAA	GTT	GAC	CAC	ACA	GTG	AAG	GAA	AAC	ACA	TTC	CTC	891

W	F	T	G	D	N	G	P	W	A	Q	K	C	E	L	A	G	S	V	G	317
TGG	TTT	ACA	GGA	GAC	AAT	GGC	CCG	TGG	GCT	CAG	AAG	TGT	GAG	CTA	GCG	GGC	AGT	GTG	GGT	951

P	F	T	G	F	W	Q	T	R	Q	G	G	S	P	A	K	Q	T	T	W	337
CCC	TTC	ACT	GGA	TTT	TGG	CAA	ACT	CGT	CAA	GGG	GGA	AGT	CCA	GCC	AAG	CAG	ACG	ACC	TGG	1011

E	G	G	H	R	V	P	A	L	A	Y	W	P	G	R	V	P	V	N	V	357
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----

GAA GGA GGG CAC CGG GTC CCA GCA CTG GCT TAC TGG CCT GGC AGA GTT CCA GTT AAT GTC	1071
T S T A L L S V L D I F P T V V A L A Q	377
ACC AGC ACT GCC TTG TTA AGC GTG CTG GAC ATT TTT CCA ACT GTG GTA GCC CTG GCC CAG	1131
A S L P Q G R R F D G V D V S E V L F G	397
GCC AGC TTA CCT CAA GGA CGG CGC TTT GAT GGT GTG GAC GTC TCC GAG GTG CTC TTT GGC	1191
R S Q P G H R V L F H P N S G A A G E F	417
CGG TCA CAG CCT GGG CAC AGG GTG CTG TTC CAC CCC AAC AGC GGG GCA GCT GGA GAG TTT	1251
G A L Q T V R L E R Y K A F Y I T G G A	437
GGA GCC CTG CAG ACT GTC CGC CTG GAG CGT TAC AAG GCC TTC TAC ATT ACC GGT GGA GCC	1311
R A C D G S T G P E L Q H K F P L I F N	457
AGG GCG TGT GAT GGG AGC ACG GGG CCT GAG CTG CAG CAT AAG TTT CCT CTG ATT TTC AAC	1371
L E D D T A E A V P L E R G G A E Y Q A	477
CTG GAA GAC GAT ACC GCA GAA GCT GTG CCC CTA GAA AGA GGT GGT GCG GAG TAC CAG GCT	1431
V L P E V R K V L A D V L Q D I A N D N	497
GTG CTG CCC GAG GTC AGA AAG GTT CTT GCA GAC GTC CTC CAA GAC ATT GCC AAC GAC AAC	1491
I S S A D Y T Q D P S V T P C C N P Y Q	517
ATC TCC AGC GCA GAT TAC ACT CAG GAC CCT TCA GTA ACT CCC TGC TGT AAT CCC TAC CAA	1551
I A C R C Q A A *	526
ATT GCC TGC CGC TGT CAA GCC GCA TAA	1578
CAGACCAATTTTATTCCACGAGGAGGAGTACCTGGAAATTAGGCAAGTTTGCTTCCAAATTTTCATTTTACCCTCTTT	
ACAAACACACGCTTTAGTTTAGTCTTGGAGTTTAGTTTGGAGTTAGCCTTGCCATATCCCTTCTGTATCCTGTCCCTCC	
TCCACGCCGACCCGAGAGCAGCTGAGCTGCGCTGGCTCTGGGCAGGGAGTGTGCCTTAATGGGAAGCACACGGGCTTTG	
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AAATAAAGGCATACATGAAAAAAAAAAAAAAAAAAAA	

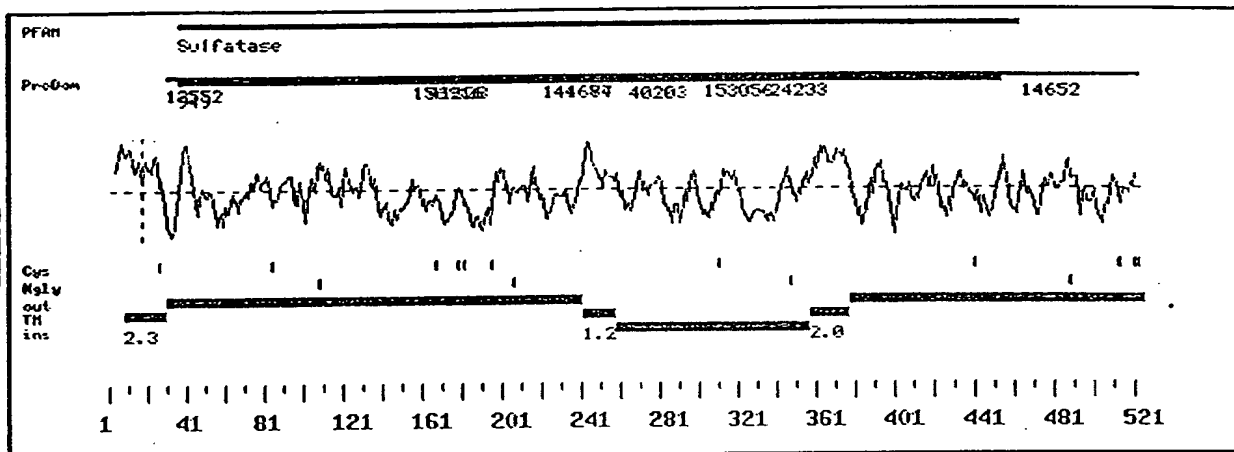


FIG 2

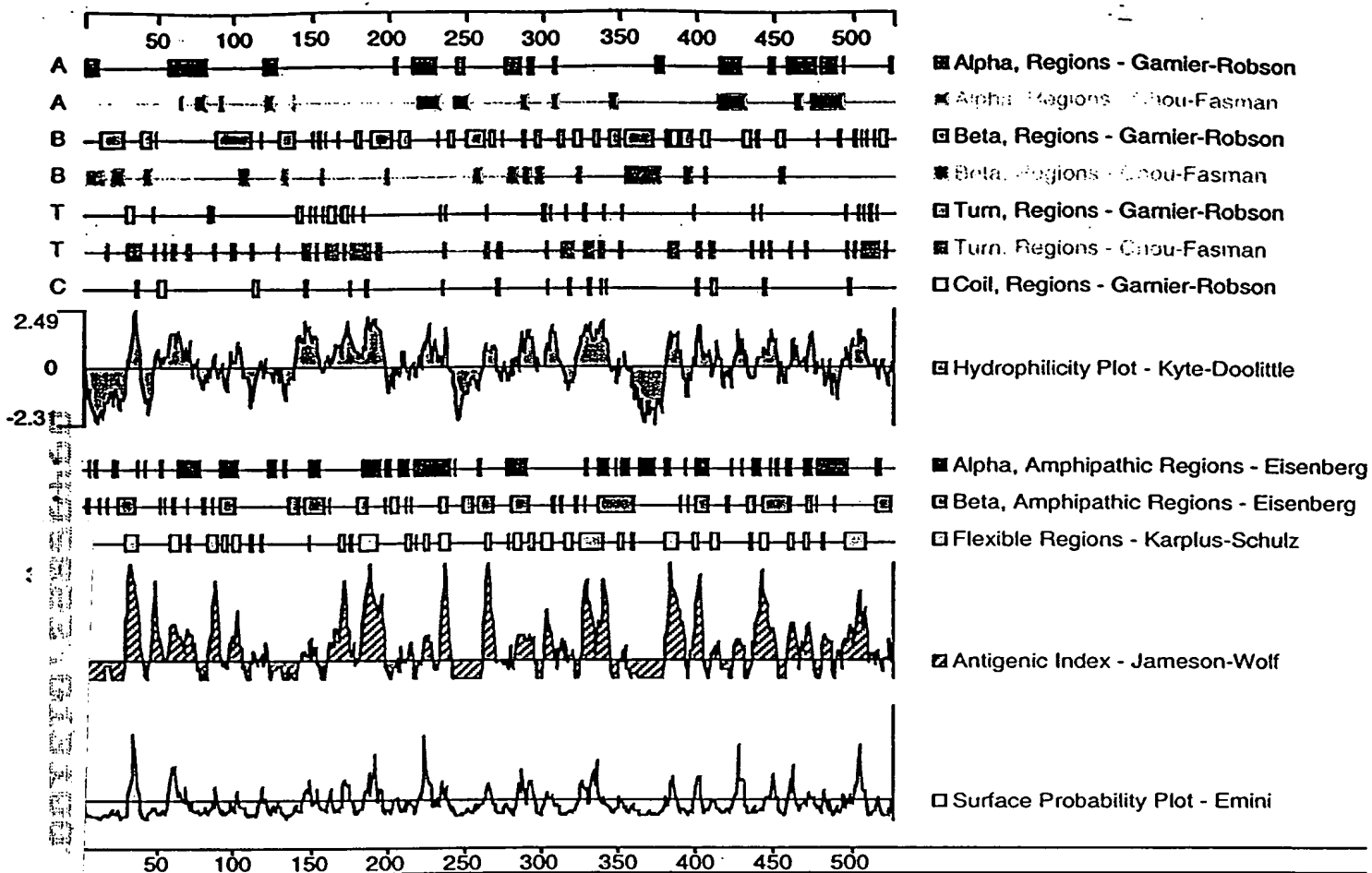


FIG 3

Prosite Pattern Matches :

Prosite version: Release 12.2 of February 1995

>PS00001|PDOC00001|ASN_GLYCOSYLATION N-glycosylation site.

Query: 117	NETT	120
Query: 215	NLSS	218
Query: 356	NVTS	359
Query: 497	NISS	500

>PS00005|PDOC00005|PKC_PHOSPHO_SITE Protein kinase C phosphorylation site.

Query: 28	SGK	30
Query: 93	TGR	95
Query: 237	SGR	239
Query: 290	TVK	292
Query: 422	TVR	424

>PS00006|PDOC00006|CK2_PHOSPHO_SITE Casein kinase II phosphorylation site.

Query: 120	TLAE	123
Query: 290	TVKE	293
Query: 335	TTWE	338
Query: 364	SVLD	367
Query: 444	TGPE	447
Query: 499	SSAD	502

>PS00008|PDOC00008|MYRISTYL N-myristoylation site.

Query: 12	GVSFSG	17
Query: 33	GQKPNF	38
Query: 52	GANWAE	57
Query: 97	GLRNGV	102
Query: 113	GLPLNE	118
Query: 158	GIPYSH	163
Query: 328	GGSPAK	333
Query: 388	GVDVSE	393
Query: 418	GALQTV	423
Query: 435	GGARAC	440

>PS00009|PDOC00009|AMIDATION Amidation site.

Query: 382	QGRR	385
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>PS00142|PDOC00117|SULFATASE_2 Sulfatases signature 2.

Query: 129	GYVTGIIGKW	138
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Input file Fbh23553f1.seq; Output File 23553.trans
Sequence length 4321

CCCAAGGCTCCGGCTAATGAATCTTGGGGCCGGTGTGGGGCCGGGGGGCTTGATGGCAACTAGGAAACCCAGGGGC
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GAGGAACATGACTCTCCCCCTTGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCTCTGCTCTCTCTCTCT
TTCCAGAGCTTTTTCTCTAGAGAAGATTTTGAAGGGCGCTTTTGTGCTGACGGCCACCCACCATCATCTAAAGAAGAT
AAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTGCAGAAAATCTTCAAAGGACCTATCTGCAGATGTT
CTGAATACCTCTGAGAATAGAGATTGATTATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGA

	M K Y S C C A L V L A	11
CATTTTGTCAAGTTTTCGAACATTGGACCAAATACA	ATG AAG TAT TCT TGC TGT GCT CTG GTT TTG GCT	33
V L G T E L L G S L C S T V R S P R F R		31
GTC CTG GGC ACA GAA TTG CTG GGA AGC CTC TGT TCG ACT GTC AGA TCC CCG AGG TTC AGA		93
G R I Q Q E R K N I R P N I I L V L T D		51
GGA CGG ATA CAG CAG GAA CGA AAA AAC ATC CGA CCC AAC ATT ATT CTT GTG CTT ACC GAT		153
D Q D V E L G S L Q V M N K T R K I M E		71
GAT CAA GAT GTG GAG CTG GGG TCC CTG CAA GTC ATG AAC AAA ACG AGA AAG ATT ATG GAA		213
H G G A T F I N A F V T T P M C C P S R		91
CAT GGG GGG GCC ACC TTC ATC AAT GCC TTT GTG ACT ACA CCC ATG TGC TGC CCG TCA CGG		273
S S M L T G K Y V H N H N V Y T N N E N		111
TCC TCC ATG CTC ACC GGG AAG TAT GTG CAC AAT CAC AAT GTC TAC ACC AAC AAC GAG AAC		333
C S S P S W Q A M H E P R T F A V Y L N		131
TGC TCT TCC CCC TCG TGG CAG GCC ATG CAT GAG CCT CGG ACT TTT GCT GTA TAT CTT AAC		393
N T G Y R T A F F G K Y L N E Y N G S Y		151
AAC ACT GGC TAC AGA ACA GCC TTT TTT GGA AAA TAC CTC AAT GAA TAT AAT GGC AGC TAC		453
I P P G W R E W L G L I K N S R F Y N Y		171
ATC CCC CCT GGG TGG CGA GAA TGG CTT GGA TTA ATC AAG AAT TCT CGC TTC TAT AAT TAC		513
T V C R N G I K E K H G F D Y A K D Y F		191
ACT GTT TGT CGC AAT GGC ATC AAA GAA AAG CAT GGA TTT GAT TAT GCA AAG GAC TAC TTC		573
T D L I T N E S I N Y F K M S K R M Y P		211
ACA GAC TTA ATC ACT AAC GAG AGC ATT AAT TAC TTC AAA ATG TCT AAG AGA ATG TAT CCC		633
H R P V M M V I S H A A P H G P E D S A		231
CAT AGG CCC GTT ATG ATG GTG ATC AGC CAC GCT GCG CCC CAC GGC CCC GAG GAC TCA GCC		693
P Q F S K L Y P N A S Q H I T P S Y N Y		251
CCA CAG TTT TCT AAA CTG TAC CCC AAT GCT TCC CAA CAC ATA ACT CCT AGT TAT AAC TAT		753
A P N M D K H W I M Q Y T G P M L P I H		271
GCA CCA AAT ATG GAT AAA CAC TGG ATT ATG CAG TAC ACA GGA CCA ATG CTG CCC ATC CAC		813
M E F T N I L Q R K R L Q T L M S V D D		291
ATG GAA TTT ACA AAC ATT CTA CAG CGC AAA AGG CTC CAG ACT TTG ATG TCA GTG GAT GAT		873
S V E R L Y N M L V E T G E L E N T Y I		311

TCT GTG GAG AGG CTG TAT AAC ATG CTC GTG GAG ACG GGG GAG CTG GAG AAT ACT TAC ATC 933
 I Y T A D H G Y H I G Q F G L V K G K S 331
 ATT TAC ACC GCC GAC CAT GGT TAC CAT ATT GGG CAG TTT GGA CTG GTC AAG GGG AAA TCC 993
 M P Y D F D I R V P F F I R G P S V E P 351
 ATG CCA TAT GAC TTT GAT ATT CGT GTG CCT TTT TTT ATT CGT GGT CCA AGT GTA GAA CCA 1053
 G S I V P Q I V L N I D L A P T I L D I 371
 GGA TCA ATA GTC CCA CAG ATC GTT CTC AAC ATT GAC TTG GCC CCC ACG ATC CTG GAT ATT 1113
 A G L D T P P D V D G K S V L K L L D P 391
 GCT GGG CTC GAC ACA CCT CCT GAT GTG GAC GGC AAG TCT GTC CTC AAA CTT CTG GAC CCA 1173
 E K P G N R F R T N K K A K I W R D T F 411
 GAA AAG CCA GGT AAC AGG TTT CGA ACA AAC AAG AAG GCC AAA ATT TGG CGT GAT ACA TTC 1233
 L V E R G K F L R K K E E S S K N I Q Q 431
 CTA GTG GAA AGA GGC AAA TTT CTA CGT AAG AAG GAA GAA TCC AGC AAG AAT ATC CAA CAG 1293
 S N H L P K Y E R V K E L C Q Q A R Y Q 451
 TCA AAT CAC TTG CCC AAA TAT GAA CGG GTC AAA GAA CTA TGC CAG CAG GCC AGG TAC CAG 1353
 T A C E Q P G Q K W Q C I E D T S G K L 471
 ACA GCC TGT GAA CAA CCG GGG CAG AAG TGG CAA TGC ATT GAG GAT ACA TCT GGC AAG CTT 1413
 R I H K C K G P S D L L T V R Q S T R N 491
 CGA ATT CAC AAG TGT AAA GGA CCC AGT GAC CTG CTC ACA GTC CGG CAG AGC ACG CGG AAC 1473
 L Y A R G F H D K D K E C S C R E S G Y 511
 CTC TAC GCT CGC GGC TTC CAT GAC AAA GAC AAA GAG TGC AGT TGT AGG GAG TCT GGT TAC 1533
 R A S R S Q R K S Q R Q F L R N Q G T P 531
 CGT GCC AGC AGA AGC CAA AGA AAG AGT CAA CGG CAA TTC TTG AGA AAC CAG GGG ACT CCA 1593
 K Y K P R F V H T R Q T R S L S V E F E 551
 AAG TAC AAG CCC AGA TTT GTC CAT ACT CGG CAG ACA CGT TCC TTG TCC GTC GAA TTT GAA 1653
 G E I Y D I N L E E E E E L Q V L Q P R 571
 GGT GAA ATA TAT GAC ATA AAT CTG GAA GAA GAA GAA GAA TTG CAA GTG TTG CAA CCA AGA 1713
 N I A K R H D E G H K G P R D L Q A S S 591
 AAC ATT GCT AAG CGT CAT GAT GAA GGC CAC AAG GGG CCA AGA GAT CTC CAG GCT TCC AGT 1773
 G G N R G R M L A D S S N A V G P P T T 611
 GGT GGC AAC AGG GGC AGG ATG CTG GCA GAT AGC AGC AAC GCC GTG GGC CCA CCT ACC ACT 1833
 V R V T H K C F I L P N D S I H C E R E 631
 GTC CGA GTG ACA CAC AAG TGT TTT ATT CTT CCC AAT GAC TCT ATC CAT TGT GAG AGA GAA 1893
 L Y Q S A R A W K D H K A Y I D K E I E 651
 CTG TAC CAA TCG GCC AGA GCG TGG AAG GAC CAT AAG GCA TAC ATT GAC AAA GAG ATT GAA 1953
 A L Q D K I K N L R E V R G H L K R R K 671
 GCT CTG CAA GAT AAA ATT AAG AAT TTA AGA GAA GTG AGA GGA CAT CTG AAG AGA AGG AAG 2013
 P E E C S C S K Q S Y Y N K E K G V K K 691
 CCT GAG GAA TGT AGC TGC AGT AAA CAA AGC TAT TAC AAT AAA GAG AAA GGT GTA AAA AAG 2073
 Q E K L K S H L H P F K E A A Q E V D S 711
 CAA GAG AAA TTA AAG AGC CAT CTT CAC CCA TTC AAG GAG GCT GCT CAG GAA GTA GAT AGC 2133

FIG 5 (-2-)

K L Q L F K E N N R R R K K E R K E K R	731
AAA CTG CAA CTT TTC AAG GAG AAC AAC CGT AGG AGG AAG AAG GAG AGG AAG GAG AAG AGA	2193
R Q R K G E E C S L P G L T C F T H D N	751
CGG CAG AGG AAG GGG GAA GAG TGC AGC CTG OCT GGC CTC ACT TGC TTC ACG CAT GAC AAC	2253
N H W Q T A P F W N L G S F C A C T S S	771
AAC CAC TGG CAG ACA GCC CCG TTC TGG AAC CTG GGA TCT TTC TGT GCT TGC ACG AGT TCT	2313
N N N T Y W C L R T V N E T H N F L F C	791
AAC AAT AAC ACC TAC TGG TGT TTG CGT ACA GTT AAT GAG ACG CAT AAT TTT CTT TTC TGT	2373
E F A T G F L E Y F D M N T D P Y Q L T	811
GAG TTT GCT ACT GGC TTT TTG GAG TAT TTT GAT ATG AAT ACA GAT OCT TAT CAG CTC ACA	2433
N T V H T V E R G I L N Q L H V Q L M E	831
AAT ACA GTG CAC ACG GTA GAA CGA GGC ATT TTG AAT CAG CTA CAC GTA CAA CTA ATG GAG	2493
L R S C Q G Y K Q C N P R P K N L D V G	851
CTC AGA AGC TGT CAA GGA TAT AAG CAG TGC AAC CCA AGA CCT AAG AAT CTT GAT GTT GGA	2553
N K D G G S Y D L H R G Q L W D G W E G	871
AAT AAA GAT GGA GGA AGC TAT GAC CTA CAC AGA GGA CAG TTA TGG GAT GGA TGG GAA GGT	2613
*	
TAA	872
	2616

TCAGCCCCGTCCTCACTGCAGACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTAC
 AGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGA
 GTCATATGAGCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTCTTGGTTGTCTCTGCTGAGCACCGC
 TGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTGACCTTG
 CCAGCTGACCTTCAAACCCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGACATTC
 CAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGAACGGGCATGAAGAGACTAATCATCTGGA
 AACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCAGCCCCAGGCTGCAGCCCATTCGAGGCACCCG
 AAAGAACTTCCCCAGTATGGTGGTCTCGGAAAGGACATTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAA
 TTTCACTTCATCAGATGTTCAACATGGCCACCGCAGAACACCGAAGTAATTCAGCATAGCGGGGAAGATGTTGACCAA
 GGTGGAGAAGAATCAOGAAAAGGAGAAGTCACAGCACCTAGAAGGCAGCGCTCTCTTCACTCTCTCTGATTAGATG
 AAACGTGTTACCTTACCTAAACACAGTATTTCTTTTAACTTTTATTGTTAACTAATAAAGKAATCACAGCCACC
 AACATTCCAAGCTACCTGGGTACCTTTGTGCACTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTCACACGGAGACT
 CATCGTTATAATTTACTATCTGCCAAGGAGTAGAAAGAAAGGCTGGGGATATTTGGGTGGCTTTGGKTTTGATTTTTT
 GCTTGGTTGGTTGGTTTGGKACTAAAACAGTATTATCTTTTGAATATCGTAGGGACATAARKWWWWMMWKKTWWTMAW
 YMRKAKGSYWRRAWKGGSTYTYTSKKRKSTWAMWYKWSMCCYSKKRWWAWTYWYWMYWCYKYTSSSTGRYKRN
 KTAATGAAGTT

FIG 5(-3-)

Analysis of 23553 (871 aa)

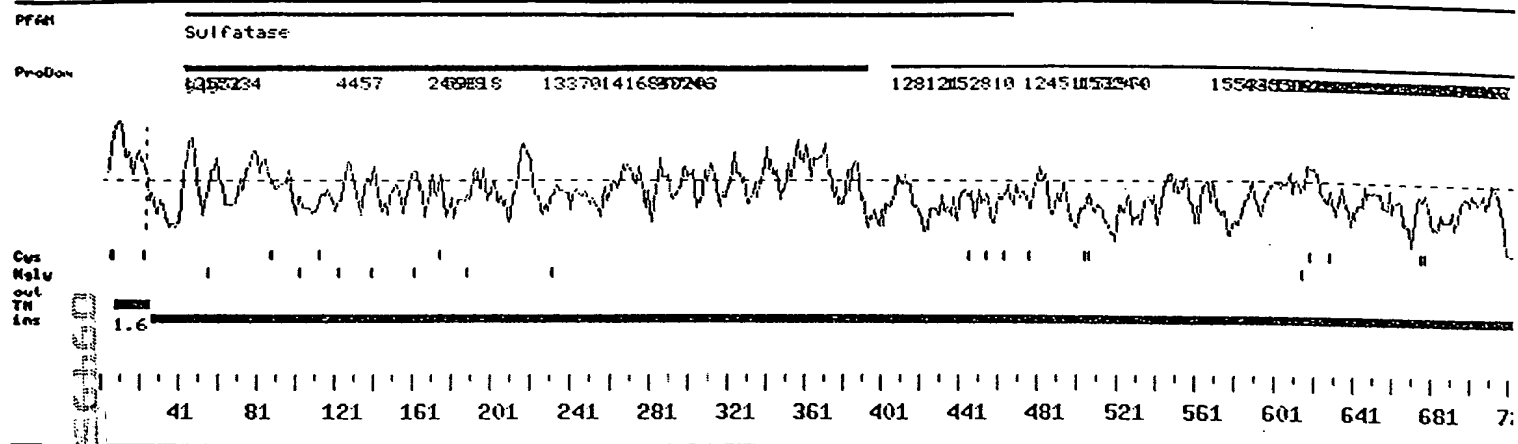


FIG 6

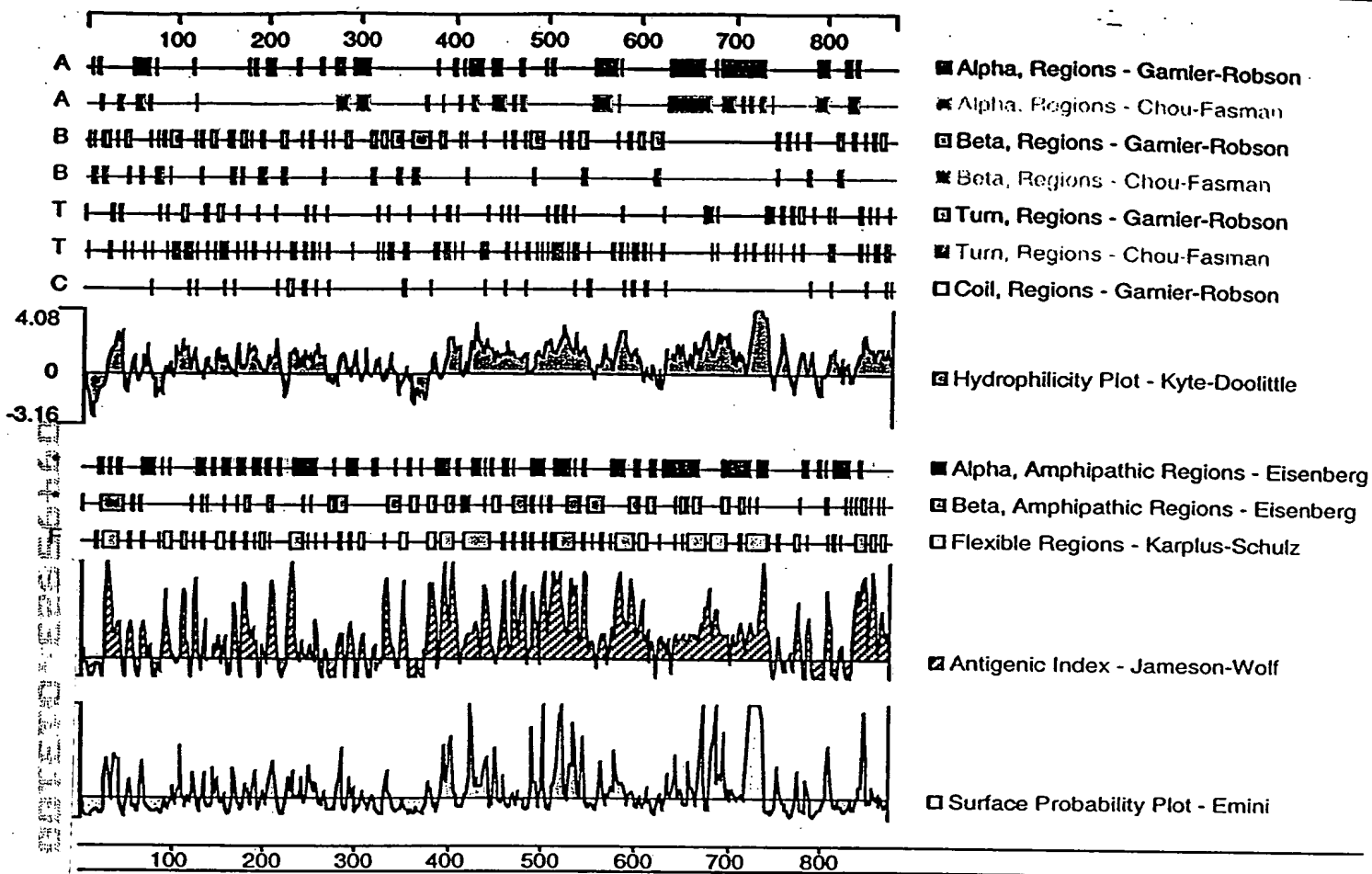


FIG 7

Prosite Pattern Matches for 23553

Prosite version: Release 12.2 of February 1995

>PS00001|PDOC00001|ASN_GLYCOSYLATION N-glycosylation site.

Query: 64	NKTR	67
Query: 111	NCSS	114
Query: 131	NNTG	134
Query: 148	NGSY	151
Query: 170	NYTV	173
Query: 197	NESI	200
Query: 240	NASQ	243
Query: 623	NDSI	626
Query: 773	NNTY	776
Query: 783	NETH	786

>PS00005|PDOC00005|PKC_PHOSPHO_SITE Protein kinase C phosphorylation site.

Query: 24	TVR	26
Query: 27	SPR	29
Query: 66	TRK	68
Query: 96	TGK	98
Query: 206	SKR	208
Query: 400	TNK	402
Query: 425	SSK	427
Query: 468	SGK	470
Query: 484	TVR	486
Query: 488	STR	490
Query: 505	SCR	507
Query: 516	SQR	518
Query: 520	SQR	522
Query: 530	TPK	532
Query: 611	TVR	613
Query: 615	THK	617
Query: 635	SAR	637

>PS00006|PDOC00006|CK2_PHOSPHO_SITE Casein kinase II phosphorylation site.

Query: 107	TNNE	110
Query: 288	SVDD	291
Query: 367	TILD	370
Query: 376	TPPD	379
Query: 452	TACE	455
Query: 505	SCRE	508
Query: 781	TVNE	784

>PS00007|PDOC00007|TYR_PHOSPHO_SITE Tyrosine kinase phosphorylation site.

Query: 637 RAWKDHKAY 645

>PS00008|PDOC00008|MYRISTYL N-myristoylation site.

Query: 19 GSLCST 24

Query: 161 GLIKNS 166

Query: 325 GLVKGK 330

Query: 592 GGNRGR 597

Query: 763 GSFCAC 768

Query: 851 GNKDGG 856

>PS00523|PDOC00117|SULFATASE_1 Sulfatases signature 1.

Query: 85 PMCCPSRSSMLTG 97

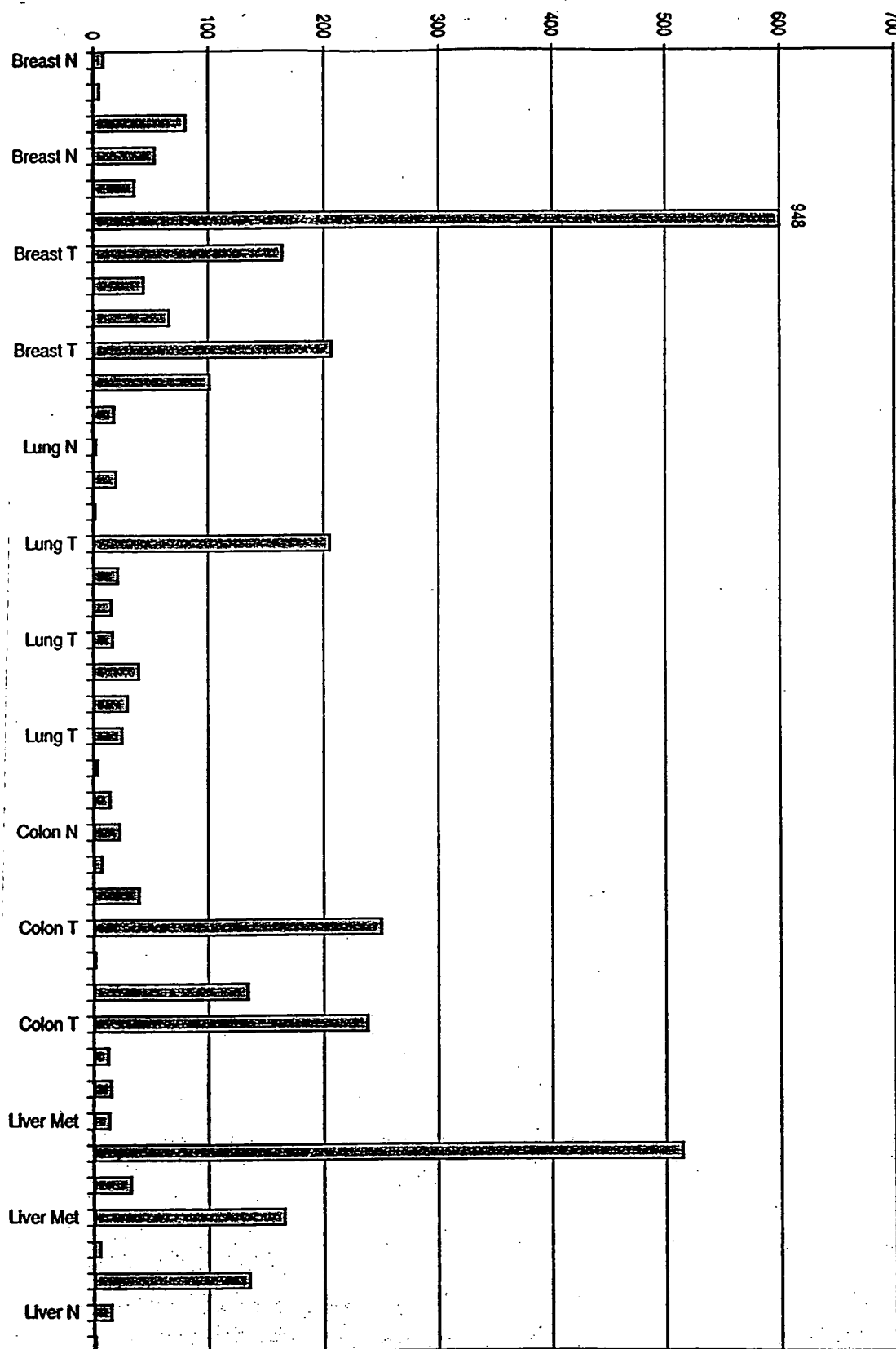


FIG 9

Input file Fbh25278FL1.seq; Output File 25278.trans
Sequence length 2940

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CGGCGCAGGGCCTGGCCTTAGGCAGCGGGAGGCAGCTGGGGCGGGCCTGACCTCCCCAGAGCGCCCCGCTGCGGCCGA
GCAGATCCGGCCAGCCGTCGGCAGCCAGTCCCGGACCAGACACTGGACCGTCCCCGGGGGGCGCTGAACCTCCCTGGC
AGCATCCGAGCCGGCGGGCCGGTGGTGGCCCTGGGGCGGGAGGTGGTGGAGCCCCAGGAGCCCGGGCGCGCCGGGACA

      M   H   T   L   T   G   F   S   L   V   S   L   L   S   F
CGCGGGCCGGCTGGCG ATG CAC ACC CTC ACT GGC TTC TCT CTG GTC AGC CTG CTC AGC TTC      15
                                                                45

  G   Y   L   S   W   D   W   A   K   P   S   F   V   A   D   G   P   G   E   A      35
GGC TAC CTG TCC TGG GAC TGG GCC AAG CCG AGC TTC GTG GCC GAC GGG CCC GGG GAG GCT      105

  G   E   Q   P   S   A   A   P   P   Q   P   P   H   I   I   F   I   L   T   D      55
GGC GAG CAG CCC TCG GCC GCT CCG CCC CAG CCT CCC CAC ATC ATC TTC ATC CTC ACG GAC      165

  D   Q   G   Y   H   D   V   G   Y   H   G   S   D   I   E   T   P   T   L   D      75
GAC CAA GGC TAC CAC GAC GTG GGC TAC CAT GGT TCA GAT ATC GAG ACC CCT ACG CTG GAC      225

  R   L   A   A   K   G   V   K   L   E   N   Y   Y   I   Q   P   I   C   T   P      95
AGG CTG GCG GCC AAG GGG GTC AAG TTG GAG AAT TAT TAC ATC CAG CCC ATC TGC ACG CCT      285

  S   R   S   Q   L   L   T   G   R   Y   Q   I   H   T   G   L   Q   H   S   I      115
TCG CGG AGC CAG CTC CTC ACT GGC AGG TAC CAG ATC CAC ACA GGA CTC CAG CAT TCC ATC      345

  I   R   P   Q   Q   P   N   C   L   P   L   D   Q   V   T   L   P   Q   K   L      135
ATC CGC CCA CAG CAG CCC AAC TGC CTG CCC CTG GAC CAG GTG ACA CTG CCA CAG AAG CTG      405

  Q   E   A   G   Y   S   T   H   M   V   G   K   W   H   L   G   F   Y   R   K      155
CAG GAG GCA GGT TAT TCC ACC CAT ATG GTG GGC AAG TGG CAC CTG GGC TTC TAC CGG AAG      465

  E   C   L   P   T   R   R   G   F   D   T   F   L   G   S   L   T   G   N   V      175
GAG TGT CTG CCC ACC CGT CCG GGC TTC GAC ACC TTC CTG GGC TCG CTC ACG GGC AAT GTG      525

  D   Y   Y   T   Y   D   N   C   D   G   P   G   V   C   G   F   D   L   H   E      195
GAC TAT TAC ACC TAT GAC AAC TGT GAT GGC CCA GGC GTG TGC GGC TTC GAC CTG CAC GAG      585

  G   E   N   V   A   W   G   L   S   G   Q   Y   S   T   M   L   Y   A   Q   R      215
GGT GAG AAT GTG GCC TGG GGG CTC AGC GGC CAG TAC TCC ACT AAG CTT TAC GCC CAG CGC      645

  A   S   H   I   L   A   S   H   S   P   Q   R   P   L   F   L   Y   V   A   F      235
GOC AGC CAT ATC CTG GCC AGC CAC AGC CCT CAG CGT CCC CTC TTC CTC TAT GTG GCC TTC      705

  Q   A   V   H   T   P   L   Q   S   P   R   E   Y   L   Y   R   Y   R   T   M      255
CAG GCA GTA CAC ACA CCC CTG CAG TCC CCT CGT GAG TAC CTG TAC CGC TAC CGC ACC ATG      765

  G   N   V   A   R   R   K   Y   A   A   M   V   T   C   M   D   E   A   V   R      275
GGC AAT GTG GCC CGG CGG AAG TAC GCG GCC ATG GTG ACC TGC ATG GAT GAG GCT GTG CGC      825

  N   I   T   W   A   L   K   R   Y   G   F   Y   N   N   S   V   I   I   F   S      295
AAC ATC ACC TGG GCC CTC AAG CGC TAC GGT TTC TAC AAC AAC AGT GTC ATC ATC TTC TCC      885

  S   D   N   G   G   Q   T   F   S   G   G   S   N   W   P   L   R   G   R   K      315
AGT GAC AAT GGT GGC CAG ACT TTC TCG GGG GGC AGC AAC TGG CCG CTC CGA GGA CGC AAG      945

  G   T   Y   W   E   G   G   V   R   G   L   G   F   V   H   S   P   L   L   K      335
GGC ACT TAT TGG GAA GGT GGC GTG CCG GGC CTA GGC TTT GTC CAC AGT CCC CTG CTC AAG      1005

```

R	K	Q	R	T	S	R	A	L	M	H	I	T	D	W	Y	P	T	L	V	355
CCA	AAG	CAA	CGG	ACA	AGC	CGG	GCA	CTG	ATG	CAC	ATC	ACT	GAC	TGG	TAC	CCG	ACC	CTG	GTG	1065
G	L	A	G	G	T	T	S	A	A	D	G	L	D	G	Y	D	V	W	P	375
GGT	CTG	GCA	GGT	GGT	ACC	ACC	TCA	GCA	GCC	GAT	GGG	CTA	GAT	GGC	TAC	GAC	GTG	TGG	COG	1125
A	I	S	E	G	R	A	S	P	R	T	E	I	L	H	N	I	D	P	L	395
GCC	ATC	AGC	GAG	GGC	CGG	GCC	TCA	CCA	CGC	ACG	GAG	ATC	CTG	CAC	AAC	ATT	GAC	CCA	CTC	1185
Y	N	H	A	Q	H	G	S	L	E	G	G	F	G	I	W	N	T	A	V	415
TAC	AAC	CAT	GCC	CAG	CAT	GGC	TCC	CTG	GAG	GGC	GGC	TTT	GGC	ATC	TGG	AAC	ACC	GCC	GTG	1245
Q	A	A	I	R	V	G	E	W	K	L	L	T	G	D	P	G	Y	G	D	435
CAG	GCT	GCC	ATC	CGC	GTG	GGT	GAG	TGG	AAG	CTG	CTG	ACA	GGA	GAC	CCC	GGC	TAT	GGC	GAT	1305
W	I	P	P	Q	T	L	A	T	F	P	G	S	W	W	N	L	E	R	M	455
TGG	ATC	CCA	CCG	CAG	ACA	CTG	GCC	ACC	TTC	COG	GGT	AGC	TGG	TGG	AAC	CTG	GAA	CGA	ATG	1365
A	S	V	R	Q	A	V	W	L	F	N	I	S	A	D	P	Y	E	R	E	475
GCC	AGT	GTC	CGC	CAG	GCC	GTG	TGG	CTC	TTC	AAC	ATC	AGT	GCT	GAC	CCT	TAT	GAA	CGG	GAG	1425
D	L	A	G	Q	R	P	D	V	V	R	T	L	L	A	R	L	A	E	Y	495
GAC	CTG	GCT	GGC	CAG	CGG	CCT	GAT	GTG	GTC	CGC	ACC	CTG	CTG	GCT	CGC	CTG	GCC	GAA	TAT	1485
N	R	T	A	I	P	V	R	Y	P	A	E	N	P	R	A	H	P	D	F	515
AAC	CGC	ACA	GCC	ATC	CCG	GTA	CGC	TAC	CCA	GCT	GAG	AAC	CCC	CGG	GCT	CAT	CCT	GAC	TTT	1545
N	G	G	A	W	G	P	W	A	S	D	E	E	E	E	E	E	E	G	R	535
AAT	GGG	GGT	GCT	TGG	GGG	CCC	TGG	GCC	AGT	GAT	GAG	GAA	GAG	GAG	GAA	GAG	GAA	GGG	AGG	1605
A	R	S	F	S	R	G	R	R	K	K	K	C	K	I	C	K	L	R	S	555
GCT	CGA	AGC	TTC	TCC	CGG	GGT	CGT	CGC	AAG	AAA	AAA	TGC	AAG	ATT	TGC	AAG	CTT	CGA	TCC	1665
F	F	R	K	L	N	T	R	L	M	S	Q	R	I	*						570
TTT	TTC	CGT	AAA	CTC	AAC	ACC	AGG	CTA	ATG	TCC	CAA	CGG	ATC	TGA						1710

TGGTGGGGAGGGAGAAAACGTCTCTTTAGAGGATCTTCCCCACTCGGGCTTGGCCCTGCTGTCTTCAGGGAGAAGCCT
 GTCACATCTCCATCTACAGGGAGTTGGAGGGTGTAGAGTCCCTTGGTTGAACAGGGTAGGGAGCCTGGATAGGAGTGGG
 TGGGAATAAACAGACTGGGATGCTGTGTCTCAGTCTGCTCCTCAAGGACTTGCTCTGTGACCTCAGGTGACCCAC
 ATGAGCTTTTAGCCTCAGTTTCTCATCTGTAAATGAGCTCTAATGACTTTGTGACTCTTTGGTGTGGCCCTGGAGCC
 TGGGGCCACGGTGGAGTTCCTGGCCGGCCTTGCCACTTGACAACCTCTTTAAGGCTTCCCCCTTAACAAGGGATCCCTG
 TGGTGGTGTTTGGGAGTTGCCTGGAGGCAACTCCAAGCCTGGCCCCCAGCTGAAGCATGGCAATCTGGCTGCTCTCTAC
 AGGGACCCCCAAGCGCTGTGGGTGGAGGGCAGGGGTGGGGGGGTGACCTTCTTGGGTCTTCACATGGCCTAGGCCAG
 TCCTCCGGTCAGACTGGTGTGAGGACCGTGGTGAATAATTCCTCTTCTTGGCCCCCTCCAGTACCCAGAGAACTGGCTG
 GGCCATTAACTGCTGCAGCAACCAAGGGTGGTAGAAAGAGCTGTGAAGAGCCCCCAAACAGTACCAGGACACCTGGGTT
 CTCTGTGACCTGGGGCACAGTTCTTGCCCTCTAGGCCTTGATTTCCCCACCTGCAAGTGGGGATGCCAGCCCTGGCTC
 TGCCCTCTTCATGAGGCTCTGGAAGACTGGCCAAGGTGTGGAGGAGCTGTGAACTTGATTAAAGTGTGTAACATGG
 AAAAAAAAAAAAAAAAAAAAAAGGGCGG

Analysis of 25278 (569 aa)

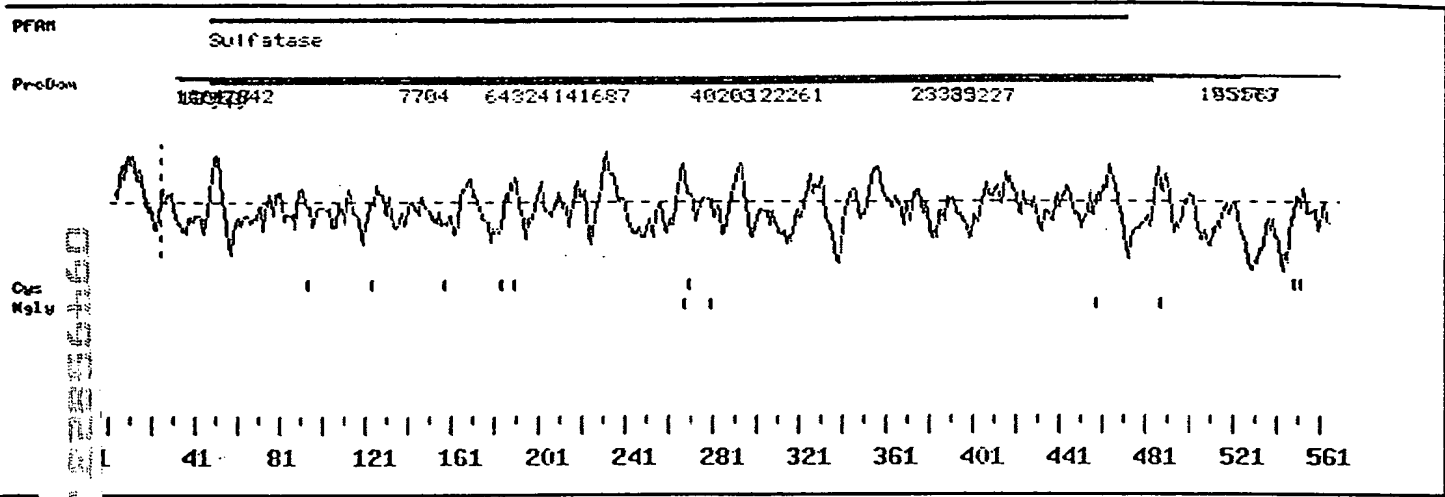


FIG- 11

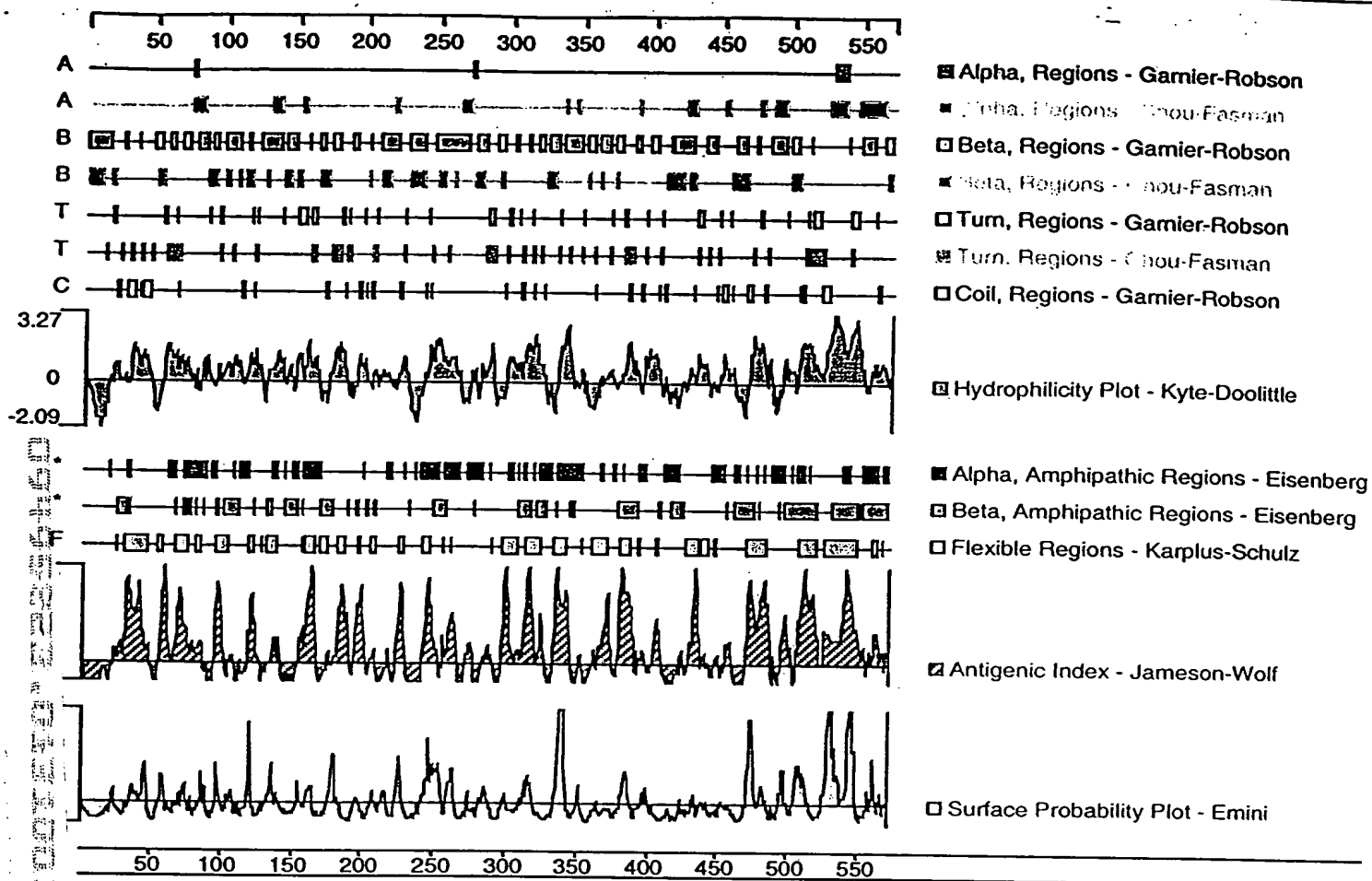


FIG 12

Prosite Pattern Matches for 25678

Prosite version: Release 12.1 of February 1998

>PS00001|PDOC00001|ASN_GLYCOSYLATION N-glycosylation site.

Query: 276 MITW 279

Query: 288 NRSV 291

Query: 466 NISA 469

Query: 496 NRTA 499

>PS00004|PDOC00004|CAMP_PHOSPHO_SITE CAMP- and cGMP-dependent protein kinase phosphorylation site.

Query: 314 RKGT 317

>PS00005|PDOC00005|PKC_PHOSPHO_SITE Protein kinase C phosphorylation site.

Query: 102 TGR 104

Query: 160 TRR 162

Query: 244 SPR 246

Query: 340 TSR 342

Query: 383 SPR 385

Query: 457 SVR 459

Query: 566 SQR 568

>PS00006|PDOC00006|CK2_PHOSPHO_SITE Casein kinase II phosphorylation site.

Query: 67 SDIE 70

Query: 244 SPRE 247

Query: 268 TCMD 271

Query: 317 TYWE 320

Query: 363 SAAD 366

Query: 525 SDEE 528

>PS00007|PDOC00007|TYR_PHOSPHO_SITE Tyrosine kinase phosphorylation site.

Query: 134 KLQEAGY 140

>PS00008|PDOC00008|MYRISTYL N-myristoylation site.

Query: 110 GLQHSI 115

Query: 169 GSLTGN 174

Query: 205 QQYSTH 210

Query: 300 GQTFSG 305

Query: 321 GGVRL 326

Query: 356 GLAGT 361

Query: 402 GSLEGG 407

Query: 409 GIWNTA 414

Query: 447 GSWNL 452

>PS00009|PDOC00009|AMIDATION Amidation site.

Query: 312 RGRK 315

Query: 541 RGRR 544

>PS00142|PDOC00117|SULFATASE_2 Sulfatases signature 2.

Query: 139 GYSTHVGKW 148

>PS00523|PDOC00117|SULFATASE_1 Sulfatases signature 1.

Query: 91 PICTPSRSQLLTG 103

FIG 13

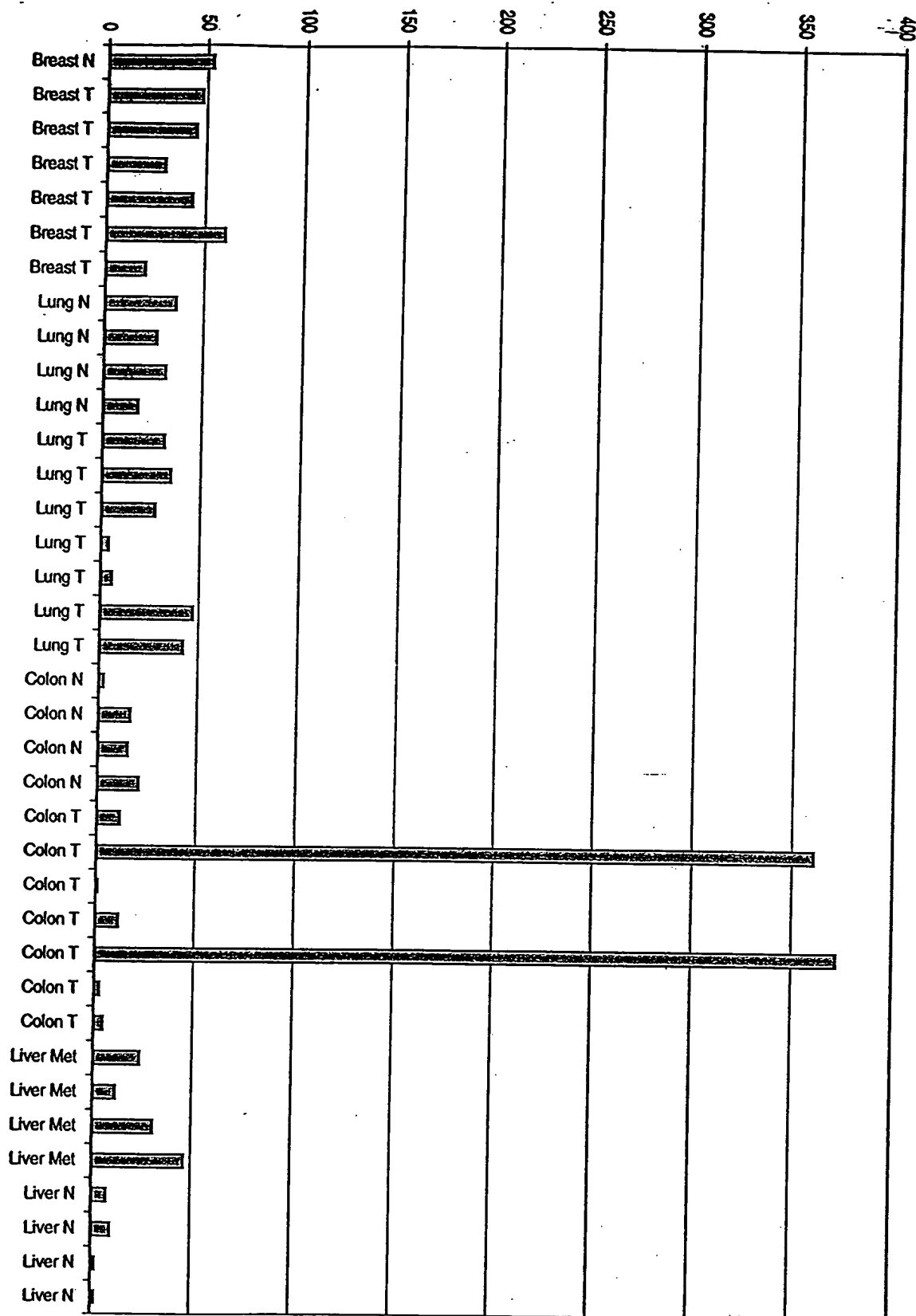


FIG 14

Input file 26212cons; Output File 26212pat
Sequence length 2266

CACGCGTCCGCCCCACGCGTCCGTGGAGATATTAACCTTTTTTCTTTTTTTTTTCTTGGTGGGAAGCTGCTCTAGGGAGG
GGGGAGGAGGAGGAGAAAGTGAAATGTGCTGGAGAAGAGCGAGCCCTCCTTGTCTTCCGGAGTCCCATCCATTAAGCC
ATCACTTCTGGAAGATTAAAGTTGTGCGACATGGTGACAGCTGAGAGGAGAGGAGGATTCTTGCCAGGTGGAGAGTCT
TCACCGTCTGTTGGGTGCATGTGTGCGCCCGCASC GGCGCGGGGCGCGTGGTTCTCCGCGTGGAGTCTCACCTGGGACC

	M	A	P	R	G	C	A	G	H	P	P	P	P	S	P	Q	A	C	18
TGAGTGA	ATG	GCT	CCC	AGG	GGC	TGT	GCG	GGG	CAT	CCG	CCT	CCG	CCT	TCT	CCA	CAG	GCC	TGT	54
V	C	P	G	K	M	L	A	M	G	A	L	A	G	F	W	I	L	C	38
GTC	TGT	CCT	GGA	AAG	ATG	CTA	GCA	ATG	GGG	GCG	CTG	GCA	GGA	TTC	TGG	ATC	CTC	TGC	114
L	T	Y	G	Y	L	S	W	G	Q	A	L	E	E	E	E	E	G	A	58
CTC	ACT	TAT	GGT	TAC	CTG	TCC	TGG	GGC	CAG	GCC	TTA	GAA	GAG	GAG	GAA	GAA	GGG	GCC	174
L	A	Q	A	G	E	K	L	E	P	S	T	T	S	T	S	Q	P	H	78
CTA	GCT	CAA	GCT	GGA	GAG	AAA	CTA	GAG	CCC	AGC	ACA	ACT	TCC	ACC	TCC	CAG	CCC	CAT	234
I	F	I	L	A	D	D	Q	G	F	R	D	V	G	Y	H	G	S	E	98
ATT	TTC	ATC	CTA	GCG	GAT	GAT	CAG	GGA	TTT	AGA	GAT	GTG	GGT	TAC	CAC	GGA	TCT	GAG	294
T	P	T	L	D	K	L	A	A	E	G	V	K	L	E	N	Y	Y	V	118
A	ACA	CCT	ACT	CTT	GAC	AAG	CTC	GCT	GCC	GAA	GGA	GTT	AAA	CTG	GAG	AAC	TAC	TAT	354
P	I	C	T	P	S	R	S	Q	F	I	T	G	K	Y	Q	I	H	T	138
G	CCT	ATT	TGC	ACA	CCA	TCC	AGG	AGT	CAG	TTT	ATT	ACT	GGA	AAG	TAT	CAG	ATA	CAC	414
L	Q	H	S	I	I	R	P	T	Q	P	N	C	L	P	L	D	N	A	158
A	CTT	CAA	CAT	TCT	ATC	ATA	AGA	CCT	ACC	CAA	CCC	AAC	TGT	TTA	CCT	CTG	GAC	AAT	474
L	P	Q	K	L	K	E	V	G	Y	S	T	H	M	V	G	K	W	H	178
C	CTA	CCT	CAG	AAA	CTG	AAG	GAG	GTT	GGA	TAT	TCA	ACG	CAT	ATG	GTC	GGA	AAA	TGG	534
G	F	Y	R	K	E	C	M	P	T	R	R	G	F	D	T	F	F	G	198
G	GGT	TTT	TAC	AGA	AAA	GAA	TGC	ATG	CCC	ACC	AGA	AGA	GGA	TTT	GAT	ACC	TTT	TTT	594
L	L	G	S	G	D	Y	Y	T	H	Y	K	C	D	S	P	G	M	C	218
C	CTT	TTG	GGA	AGT	GGG	GAT	TAC	TAT	ACA	CAC	TAC	AAA	TGT	GAC	AGT	CCT	GGG	ATG	654
Y	D	L	Y	E	N	D	N	A	A	W	D	Y	D	N	G	I	Y	S	238
C	TAT	GAC	TTG	TAT	GAA	AAC	GAC	AAT	GCT	GCC	TGG	GAC	TAT	GAC	AAT	GGC	ATA	TAC	714
Q	M	Y	T	Q	R	V	Q	Q	I	L	A	S	H	N	P	T	K	P	258
ACA	CAG	ATG	TAC	ACT	CAG	AGA	GTA	CAG	CAA	ATC	TTA	GCT	TCC	CAT	AAC	CCC	ACA	AAG	774
I	F	L	Y	I	A	Y	Q	A	V	H	S	P	L	Q	A	P	G	R	278
ATA	TTT	TTA	TAT	ATT	GCC	TAT	CAA	GCT	GTT	CAT	TCA	CCA	CTG	CAA	GCT	CCT	GGC	AGG	834
F	E	H	Y	R	S	I	I	N	I	N	R	R	R	Y	A	A	M	L	298
TTC	GAA	CAC	TAC	CGA	TCC	ATT	ATC	AAC	ATA	AAC	AGG	AGG	AGA	TAT	GCT	GCC	ATG	CTT	894
C	L	D	E	A	I	N	N	V	T	L	A	L	K	T	Y	G	F	Y	318
TGC	TTA	GAT	GAA	GCA	ATC	AAC	AAC	GTG	ACA	TTG	GCT	CTA	AAG	ACT	TAT	GGT	TTC	TAT	954
N	S	I	I	I	Y	S	S	D	N	G	G	Q	P	T	A	G	G	S	338
AAC	AGC	ATT	ATC	ATT	TAC	TCT	TCA	GAT	AAT	GGT	GGC	CAG	CCT	ACG	GCA	GGA	GGG	AGT	1014
W	P	L	R	G	S	K	G	T	Y	W	E	G	G	I	R	A	V	G	358
TGG	CCT	CTC	AGA	GGT	AGC	AAA	GGA	ACA	TAT	TGG	GAA	GGA	GGG	ATC	CGG	GCT	GTA	GGC	1074

FIG 15 (1)

V	H	S	P	L	L	K	N	K	G	T	V	C	K	E	L	V	H	I	T	378
GTG	CAT	AGC	CCA	CTT	CTG	AAA	AAC	AAG	GGA	ACA	GTG	TGT	AAG	GAA	CTT	GTG	CAC	ATC	ACT	1134
D	W	Y	P	T	L	I	S	L	A	E	G	Q	I	D	E	D	I	Q	L	398
GAC	TGG	TAC	CCC	ACT	CTC	ATT	TCA	CTG	GCT	GAA	GGA	CAG	ATT	GAT	GAG	GAC	ATT	CAA	CTA	1194
D	G	Y	D	I	W	E	T	I	S	E	G	L	R	S	P	R	V	D	I	418
GAT	GGC	TAT	GAT	ATC	TGG	GAG	ACC	ATA	AGT	GAG	GGT	CTT	CGC	TCA	CCC	CGA	GTA	GAT	ATT	1254
L	H	N	I	D	P	I	Y	T	K	A	K	N	G	S	W	A	A	G	Y	438
TTG	CAT	AAC	ATT	GAC	CCC	ATA	TAC	ACC	AAG	GCA	AAA	AAT	GGC	TCC	TGG	GCA	GCA	GGC	TAT	1314
G	I	W	N	T	A	I	Q	S	A	I	R	V	Q	H	W	K	L	L	T	458
GGG	ATC	TGG	AAC	ACT	GCA	ATC	CAG	TCA	GCC	ATC	AGA	GTG	CAG	CAC	TGG	AAA	TTG	CTT	ACA	1374
G	N	P	G	Y	S	D	W	V	P	P	Q	S	F	S	N	L	G	P	N	478
GGA	AAT	CCT	GGC	TAC	AGC	GAC	TGG	GTC	CCC	CCT	CAG	TCT	TTC	AGC	AAC	CTG	GGA	CCG	AAC	1434
R	W	H	N	E	R	I	T	S	S	T	G	K	S	V	W	L	F	N	I	498
CGG	TGG	CAC	AAT	GAA	CGG	ATC	ACC	TGG	TCA	ACT	GGC	AAA	AGT	GTA	TGG	CTT	TTC	AAC	ATC	1494
T	A	D	P	Y	E	R	V	D	L	S	N	R	Y	P	G	I	V	K	K	518
ACA	GCC	GAC	CCA	TAT	GAG	AGG	GTG	GAC	CTA	TCT	AAC	AGG	TAT	CCA	GGA	ATC	GTG	AAG	AAG	1554
L	R	R	L	S	Q	F	N	K	T	A	V	P	V	R	Y	P	P	K		538
CTA	CGG	AGG	CTC	TCA	CAG	TTC	AAC	AAA	ACT	GCA	GTG	CCG	GTC	AGG	TAT	CCC	CCC	AAA		1614
P	R	S	N	P	R	L	N	G	G	V	*									551
CCC	AGA	AGT	AAC	CCT	AGG	CTC	AAT	GGA	GGG	GTC	TAG									1653

ACCATGGTATAGAGAGGAAACCAAGAAAAAGAAGCCAAGCAAAAATCAGGCTGAGAAAAAGCAAAAGAAAAGCAAAA
 AGAAGAAGAAACAGCAGAAAGCAGTCTCAGGTTCAACTTGCCATTCAGGTGTTACTTGTGGATAAGCACAAATATTT
 GTTTGGTTAACTTTAATCAGTTCTTATCTTTTCATCTGTTTCCTAGGTAAACCAGCAAATTTGGCTCGATAATATC
 TGGCCTAAGCGTCAGGCTTGTTTTTCATGCTGTGCCACCTGGTGCCGAATTC

FIG 15(2)

91-915



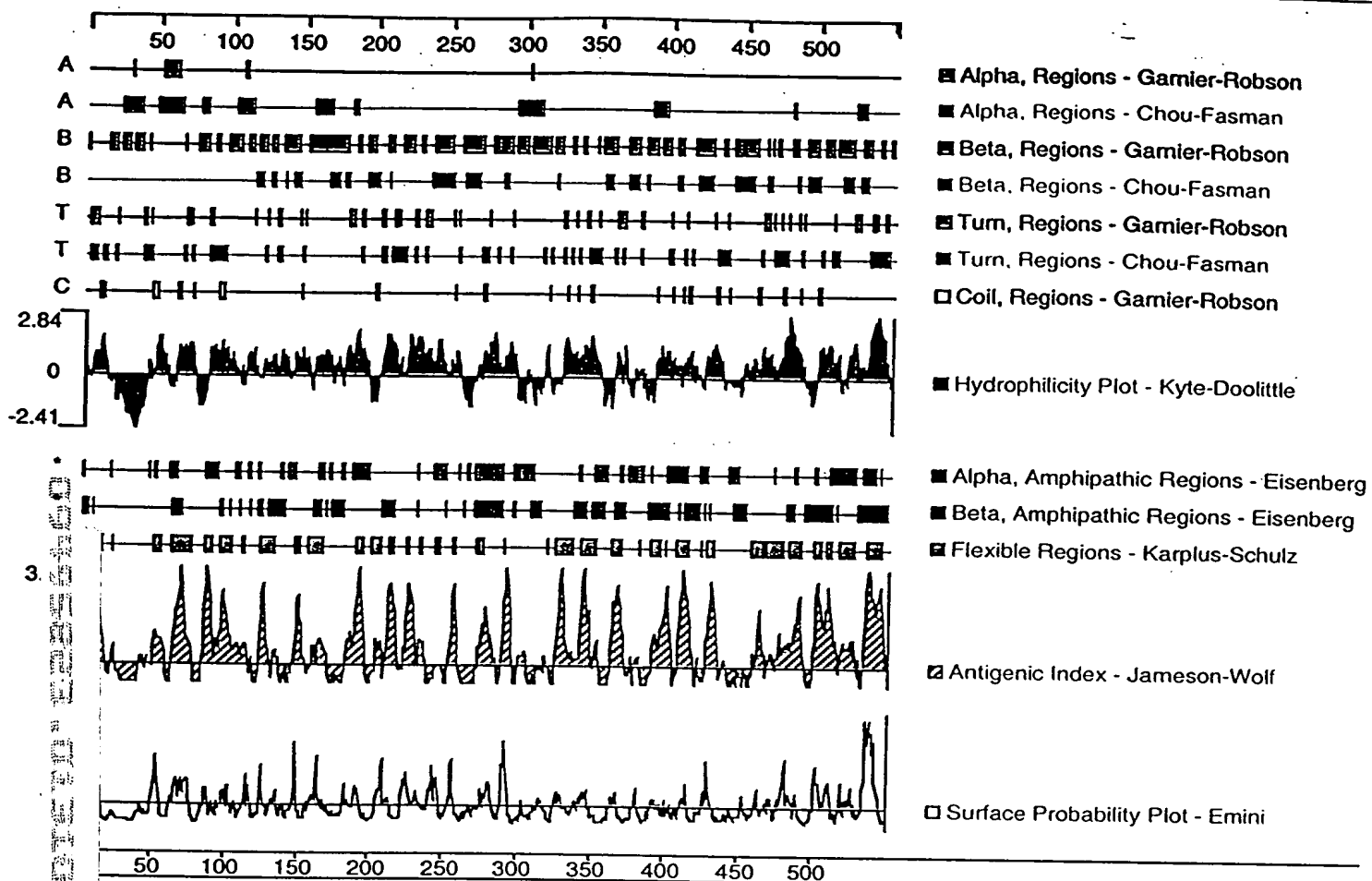


FIG 17

Prosite Pattern Matches for 26212prot

Prosite version: Release 12.2 of February 1995

>PS00001|PDOC00001|ASN_GLYCOSYLATION N-glycosylation site.

Query: 157 NATL 160

Query: 306 NVTL 309

Query: 318 NNSI 321

Query: 431 NGSW 434

Query: 497 NITA 500

Query: 527 NKTA 530

>PS00004|PDOC00004|CAMP_PHOSPHO_SITE cAMP- and cGMP-dependent protein kinase phosphorylat

Query: 521 RRLS 524

>PS00005|PDOC00005|PKC_PHOSPHO_SITE Protein kinase C phosphorylation site.

Query: 131 TGK 133

Query: 189 TRR 191

Query: 243 TQR 245

Query: 413 SPR 415

Query: 489 TGK 491

Query: 509 SNR 511

>PS00006|PDOC00006|CK2_PHOSPHO_SITE Casein kinase II phosphorylation site.

Query: 298 SCLD 301

Query: 347 TYWE 350

Query: 386 SLAE 389

Query: 406 TISE 409

>PS00007|PDOC00007|TYR_PHOSPHO_SITE Tyrosine kinase phosphorylation site.

Query: 163 KLKEVG 169

>PS00008|PDOC00008|MYRISTYL N-myristoylation site.

Query: 28 GALAGF 33

Query: 56 GALLAQ 61

Query: 139 GLQHSI 144

Query: 198 GSSLGS 203
Query: 235 GIYSTQ 240
Query: 329 GGQPTA 334
Query: 343 GSKGTY 348
Query: 351 GGIRAV 356
Query: 432 GSWAAG 437
Query: 439 GIWNTA 444

>PS00149|PDOC00117|SULFATASE_2 Sulfatases signature 2.

Query: 168 GYSTHMGKW 177

>PS00523|PDOC00117|SULFATASE_1 Sulfatases signature 1.

Query: 120 PICTPSRSQFITG 132